

**APPENDIX D**

**Tables of raw measurement grid test results**

## VHF Mobile tables of raw measurement grid test results

BS Position 1

**Table 1**

External Vehicle MPE Assessment @ <b>136.0125 MHz</b>									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	E	0.82	0.069	121.0	0.034	0.03
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	2.5%		6	120	1.9%		1.00	0.20
2	40	3.3%		7	140	6.2%			
3	60	4.9%		8	160	9.3%			
4	80	4.3%		9	180	15.2%			
5	100	2.2%		10	200	19.0%			
								<b>RF Po (*Max)</b>	120.0

**Table 2**

Internal Vehicle MPE Assessment @ <b>136.0125 MHz</b>										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	RAD4010A	5.15	Highest Reading	E	0.82	0.068	0.014	121.0	0.034	0.03
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:		1.00		
Back Seat		6.4%	4.4%	9.5%		IEEE Uncontrolled Limit:		0.20		
Front Seat		3.1%	0.0%	1.0%		<b>RF Po (*Max):</b>		120.0		

BS Position 1

**Table 3**

External Vehicle MPE Assessment @ <b>155 MHz</b>									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	E	0.84	0.111	120.0	0.055	0.06
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	1.5%		6	120	7.9%		1.00	0.20
2	40	4.7%		7	140	14.8%			
3	60	3.8%		8	160	17.9%			
4	80	3.0%		9	180	24.4%			
5	100	4.2%		10	200	28.6%			
								<b>RF Po (*Max)</b>	120.0

Table 4

Internal Vehicle MPE Assessment @ 155 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	RAD4010A	5.15	Highest Reading	E	0.84	0.111	0.012	120.0	0.056	0.06
Measurement Grid										
Test Position	% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk	IEEE Controlled Limit:		1.00				
Back Seat	17.6%	10.3%	5.4%	IEEE Uncontrolled Limit:		0.20				
Front Seat	0.0%	2.1%	1.4%	RF Po (*Max):		120.0				

BS Position 1

Table 5

External Vehicle MPE Assessment @ 173.9875 MHz										
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )	
Roof (cnt)	RAD4010A	5.15	90	E	0.86	0.103	120.0	0.052	0.05	
Measurement Grid										
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit	IEEE Uncontrolled Limit			
1	20	0.0%	6	120	10.4%	1.00	0.20			
2	40	1.3%	7	140	15.4%	RF Po (*Max)				
3	60	1.9%	8	160	17.8%					
4	80	2.4%	9	180	21.7%					
5	100	6.5%	10	200	25.8%					120.0

Table 6

Internal Vehicle MPE Assessment @ 173.9875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	RAD4010A	5.15	Highest Reading	E	0.86	0.069	0.012	120.0	0.034	0.03
Measurement Grid										
Test Position	% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk	IEEE Controlled Limit:		1.00				
Back Seat	12.4%	5.9%	2.3%	IEEE Uncontrolled Limit:		0.20				
Front Seat	0.0%	1.7%	2.0%	RF Po (*Max):		120.0				

**Table 7**

External Vehicle MPE Assessment @ 136.0125 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	E	0.82	0.066	121.0	0.033	0.03
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	1.2%		6	120	4.3%		1.00	0.20
2	40	1.7%		7	140	8.1%		RF Po (*Max)	120.0
3	60	2.1%		8	160	10.7%			
4	80	3.3%		9	180	14.3%			
5	100	3.3%		10	200	16.7%			

**Table 8**

External Vehicle MPE Assessment @ 155 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	E	0.84	0.121	120.0	0.061	0.06
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	4.3%		6	120	11.7%		1.00	0.20
2	40	5.5%		7	140	16.3%		RF Po (*Max)	120.0
3	60	6.1%		8	160	19.4%			
4	80	6.9%		9	180	21.1%			
5	100	8.3%		10	200	21.4%			

**Table 9**

External Vehicle MPE Assessment @ 173.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	E	0.86	0.133	120.0	0.066	0.07
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	7.8%		6	120	17.1%		1.00	0.20
2	40	8.4%		7	140	16.7%		RF Po (*Max)	120.0
3	60	8.7%		8	160	15.5%			
4	80	11.1%		9	180	16.3%			
5	100	13.8%		10	200	17.2%			

BS Position 3

**Table 10**

External Vehicle MPE Assessment @ 136.0125 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	E	0.82	0.055	121.0	0.028	0.03
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.7%		6	120	5.0%		1.00	0.20
2	40	2.0%		7	140	7.5%		RF Po (*Max)	120.0
3	60	3.1%		8	160	9.2%			
4	80	3.3%		9	180	10.5%			
5	100	3.4%		10	200	10.5%			

BS Position 3

**Table 11**

External Vehicle MPE Assessment @ 155 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	E	0.84	0.093	120.0	0.046	0.05
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	4.2%		6	120	10.9%		1.00	0.20
2	40	5.9%		7	140	11.8%		RF Po (*Max)	120.0
3	60	6.6%		8	160	13.0%			
4	80	6.8%		9	180	12.3%			
5	100	9.0%		10	200	12.3%			

BS Position 3

**Table 12**

External Vehicle MPE Assessment @ 173.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	E	0.86	0.111	120.0	0.055	0.06
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	5.1%		6	120	13.1%		1.00	0.20
2	40	5.7%		7	140	15.2%		RF Po (*Max)	120.0
3	60	5.3%		8	160	15.9%			
4	80	8.7%		9	180	16.2%			
5	100	9.9%		10	200	15.7%			

BS Position 4

**Table 13**

External Vehicle MPE Assessment @ 136.0125 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	E	0.82	0.005	121.0	0.002	0.00
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.0%		6	120	0.0%		1.00	0.20
2	40	0.0%		7	140	0.7%		RF Po (*Max)	120.0
3	60	0.0%		8	160	1.1%			
4	80	0.0%		9	180	1.6%			
5	100	0.0%		10	200	1.5%			

BS Position 4

**Table 14**

External Vehicle MPE Assessment @ 155 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	E	0.84	0.030	120.0	0.015	0.01
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.0%		6	120	3.0%		1.00	0.20
2	40	0.0%		7	140	6.6%		RF Po (*Max)	120.0
3	60	1.0%		8	160	6.1%			
4	80	1.8%		9	180	5.0%			
5	100	2.7%		10	200	3.6%			

BS Position 4

**Table 15**

External Vehicle MPE Assessment @ 173.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	E	0.86	0.024	120.0	0.012	0.01
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.0%		6	120	4.6%		1.00	0.20
2	40	0.0%		7	140	3.3%		RF Po (*Max)	120.0
3	60	0.0%		8	160	3.0%			
4	80	1.8%		9	180	4.1%			
5	100	3.5%		10	200	3.5%			

BS Position 5

**Table 16**

External Vehicle MPE Assessment @ 136.0125 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	E	0.82	0.039	121.0	0.020	0.02
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	2.1%		6	120	2.6%		1.00	0.20
2	40	3.3%		7	140	4.5%		RF Po (*Max)	120.0
3	60	2.9%		8	160	5.9%			
4	80	2.5%		9	180	6.3%			
5	100	2.3%		10	200	6.7%			

BS Position 5

**Table 17**

External Vehicle MPE Assessment @ 155 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	E	0.84	0.070	120.0	0.035	0.03
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	5.2%		6	120	7.3%		1.00	0.20
2	40	5.1%		7	140	8.9%		RF Po (*Max)	120.0
3	60	5.0%		8	160	8.7%			
4	80	4.3%		9	180	9.4%			
5	100	5.6%		10	200	10.0%			

BS Position 5

**Table 18**

External Vehicle MPE Assessment @ 173.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	E	0.86	0.059	120.0	0.029	0.03
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	4.4%		6	120	5.8%		1.00	0.20
2	40	4.0%		7	140	6.9%		RF Po (*Max)	120.0
3	60	3.5%		8	160	7.0%			
4	80	4.2%		9	180	8.6%			
5	100	4.9%		10	200	9.4%			

Table 19

External Vehicle MPE Assessment @ 136.0125 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	H	1.00	0.160	121.0	0.080	0.08
Measurement Grid									
Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.12		6	120	0.11		1.00	0.20
2	40	0.10		7	140	0.14		RF Po (*Max)	120.0
3	60	0.13		8	160	0.15			
4	80	0.19		9	180	0.24			
5	100	0.12		10	200	0.30			

Table 20

Internal Vehicle MPE Assessment @ 136.0125 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	RAD4010A	5.15	Highest Reading	H	1.00	0.240	0.143	121.0	0.120	0.12
Measurement Grid										
Test Position		Magnetic Field Strength Head	Magnetic Field Strength Chest	Magnetic Field Strength Lower Trunk		IEEE Controlled Limit:		IEEE Uncontrolled Limit:		
Back Seat		0.26	0.24	0.22		1.00		0.200		
Front Seat		0.14	0.16	0.13		RF Po (*Max):		120.0		

Table 21

External Vehicle MPE Assessment @ 155 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	H	0.99	0.126	120.0	0.063	0.06
Measurement Grid									
Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.05		6	120	0.09		1.00	0.20
2	40	0.04		7	140	0.12		RF Po (*Max)	120.0
3	60	0.07		8	160	0.20			
4	80	0.08		9	180	0.26			
5	100	0.05		10	200	0.30			



Table 22

Internal Vehicle MPE Assessment @ 155 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	RAD4010A	5.15	Highest Reading	H	0.99	0.063	0.053	120.0	0.032	0.03
Measurement Grid										
Test Position	Magnetic Field Strength Head	Magnetic Field Strength Chest	Magnetic Field Strength Lower Trunk	IEEE Controlled Limit:		1.00				
Back Seat	0.10	0.06	0.03	IEEE Uncontrolled Limit:		0.200				
Front Seat	0.08	0.06	0.02	RF Po (*Max):		120.0				

BS Position 1

Table 23

External Vehicle MPE Assessment @ 173.9875 MHz										
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )	
Roof (cnt)	RAD4010A	5.15	90	H	0.98	0.175	120.0	0.088	0.09	
Measurement Grid										
Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )	Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )	IEEE Controlled Limit	IEEE Uncontrolled Limit	RF Po (*Max)		
1	20	0.04	6	120	0.17	1.00	0.20	120.0		
2	40	0.03	7	140	0.24	RF Po (*Max):				
3	60	0.05	8	160	0.31					
4	80	0.08	9	180	0.35					
5	100	0.12	10	200	0.36					

Table 24

Internal Vehicle MPE Assessment @ 173.9875 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Roof (cnt)	RAD4010A	5.15	Highest Reading	H	0.98	0.040	0.080	120.0	0.040	0.04
Measurement Grid										
Test Position	Magnetic Field Strength Head	Magnetic Field Strength Chest	Magnetic Field Strength Lower Trunk	IEEE Controlled Limit:		1.00				
Back Seat	0.07	0.02	0.03	IEEE Uncontrolled Limit:		0.200				
Front Seat	0.10	0.09	0.05	RF Po (*Max):		120.0				

BS Position 2

**Table 25**

External Vehicle MPE Assessment @ <b>136.0125</b> MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	H	1.00	0.177	121.0	0.089	0.09
Measurement Grid									
Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.08		6	120	0.13		1.00	0.20
2	40	0.08		7	140	0.19			
3	60	0.08		8	160	0.28			
4	80	0.14		9	180	0.32			
5	100	0.14		10	200	0.33			
								RF Po (*Max)	120.0

BS Position 2

**Table 26**

External Vehicle MPE Assessment @ <b>155</b> MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	H	0.99	0.148	120.0	0.074	0.07
Measurement Grid									
Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.03		6	120	0.10		1.00	0.20
2	40	0.02		7	140	0.17			
3	60	0.05		8	160	0.25			
4	80	0.08		9	180	0.33			
5	100	0.08		10	200	0.37			
								RF Po (*Max)	120.0

BS Position 2

**Table 27**

External Vehicle MPE Assessment @ <b>173.9875</b> MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	H	0.98	0.216	120.0	0.108	0.11
Measurement Grid									
Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.07		6	120	0.24		1.00	0.20
2	40	0.06		7	140	0.27			
3	60	0.09		8	160	0.31			
4	80	0.11		9	180	0.38			
5	100	0.18		10	200	0.45			
								RF Po (*Max)	120.0

BS Position 3

**Table 28**

External Vehicle MPE Assessment @ 136.0125 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	H	1.00	0.191	121.0	0.096	0.10
Measurement Grid									
Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.08		6	120	0.13		1.00	0.20
2	40	0.07		7	140	0.29		RF Po (*Max)	120.0
3	60	0.08		8	160	0.33			
4	80	0.13		9	180	0.34			
5	100	0.11		10	200	0.35			

BS Position 3

**Table 29**

External Vehicle MPE Assessment @ 155 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	H	0.99	0.209	120.0	0.105	0.10
Measurement Grid									
Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.08		6	120	0.18		1.00	0.20
2	40	0.08		7	140	0.26		RF Po (*Max)	120.0
3	60	0.12		8	160	0.33			
4	80	0.16		9	180	0.37			
5	100	0.16		10	200	0.35			

BS Position 3

**Table 30**

External Vehicle MPE Assessment @ 173.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	H	0.98	0.234	120.0	0.117	0.12
Measurement Grid									
Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.07		6	120	0.26		1.00	0.20
2	40	0.08		7	140	0.30		RF Po (*Max)	120.0
3	60	0.14		8	160	0.34			
4	80	0.17		9	180	0.37			
5	100	0.23		10	200	0.38			

BS Position 4

**Table 31**

External Vehicle MPE Assessment @ 136.0125 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	H	1.00	0.076	121.0	0.038	0.04
Measurement Grid									
Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.03		6	120	0.03		1.00	0.20
2	40	0.00		7	140	0.12			
3	60	0.00		8	160	0.18			
4	80	0.00		9	180	0.24			
5	100	0.00		10	200	0.16			
								RF Po (*Max)	120.0

BS Position 4

**Table 32**

External Vehicle MPE Assessment @ 155 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	H	0.99	0.121	120.0	0.061	0.06
Measurement Grid									
Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.03		6	120	0.12		1.00	0.20
2	40	0.00		7	140	0.18			
3	60	0.03		8	160	0.24			
4	80	0.05		9	180	0.25			
5	100	0.07		10	200	0.24			
								RF Po (*Max)	120.0

BS Position 4

**Table 33**

External Vehicle MPE Assessment @ 173.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	H	0.98	0.171	120.0	0.086	0.09
Measurement Grid									
Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.08		6	120	0.24		1.00	0.20
2	40	0.10		7	140	0.26			
3	60	0.12		8	160	0.22			
4	80	0.16		9	180	0.17			
5	100	0.19		10	200	0.17			
								RF Po (*Max)	120.0

BS Position 5

**Table 34**

External Vehicle MPE Assessment @ 136.0125 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	H	1.00	0.164	121.0	0.082	0.08
Measurement Grid									
Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.10		6	120	0.13		1.00	0.20
2	40	0.09		7	140	0.24			
3	60	0.10		8	160	0.26			
4	80	0.11		9	180	0.26			
5	100	0.12		10	200	0.23			
								RF Po (*Max)	120.0

BS Position 5

**Table 35**

External Vehicle MPE Assessment @ 155 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	H	0.99	0.168	120.0	0.084	0.08
Measurement Grid									
Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.10		6	120	0.14		1.00	0.20
2	40	0.09		7	140	0.24			
3	60	0.11		8	160	0.27			
4	80	0.13		9	180	0.26			
5	100	0.13		10	200	0.21			
								RF Po (*Max)	120.0

BS Position 5

**Table 36**

External Vehicle MPE Assessment @ 173.9875 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Roof (cnt)	RAD4010A	5.15	90	H	0.98	0.139	120.0	0.070	0.07
Measurement Grid									
Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		Test Position	Height (cm)	Meas. Pwr. Density (mW/cm <sup>2</sup> )		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.09		6	120	0.14		1.00	0.20
2	40	0.09		7	140	0.18			
3	60	0.10		8	160	0.16			
4	80	0.13		9	180	0.18			
5	100	0.14		10	200	0.18			
								RF Po (*Max)	120.0

## DVR 700MHz tables of raw measurement grid test results

BS Position 1

**Table 1**

External Vehicle MPE Assessment @ 764 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.76	0.010	12.6	0.010	0.01
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.2%		6	120	0.5%		2.55	0.51
2	40	0.2%		7	140	0.5%			
3	60	0.4%		8	160	0.5%			
4	80	0.4%		9	180	0.5%			
5	100	0.4%		10	200	0.5%			
								<b>RF Po (*Max)</b>	12.6

**Table 2**

Internal Vehicle MPE Assessment @ 764 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Trunk (cnt)	HAF4016A	2.15	Highest Reading	E	0.76	0.060	0.048	12.6	0.060	0.06
Measurement Grid										
Test Position		% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk		IEEE Controlled Limit:			2.55	
Back Seat		3.3%	2.3%	1.5%		IEEE Uncontrolled Limit:			0.51	
Front Seat		1.6%	2.1%	1.9%		<b>RF Po (*Max):</b>			12.6	

BS Position 1

**Table 3**

External Vehicle MPE Assessment @ 770 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.76	0.014	12.6	0.014	0.01
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.3%		6	120	0.6%		2.57	0.51
2	40	0.4%		7	140	0.7%			
3	60	0.5%		8	160	0.7%			
4	80	0.4%		9	180	0.8%			
5	100	0.5%		10	200	0.7%			
								<b>RF Po (*Max)</b>	12.6

Table 4

Internal Vehicle MPE Assessment @ 770 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Trunk (cnt)	HAF4016A	2.15	Highest Reading	E	0.76	0.110	0.056	12.6	0.110	0.11
Measurement Grid										
Test Position	% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk	IEEE Controlled Limit:		2.57				
Back Seat	6.8%	3.9%	2.1%	IEEE Uncontrolled Limit:		0.51				
Front Seat	2.5%	2.2%	1.9%	RF Po (*Max):		12.6				

BS Position 1

Table 5

External Vehicle MPE Assessment @ 776 MHz										
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )	
										Trunk (cnt)
Measurement Grid										
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit	IEEE Uncontrolled Limit			
1	20	0.3%	6	120	0.8%	2.59	0.52			
2	40	0.3%	7	140	0.9%	RF Po (*Max)				
3	60	0.4%	8	160	0.8%					
4	80	0.5%	9	180	0.9%					
5	100	0.7%	10	200	0.9%	12.6				

Table 6

Internal Vehicle MPE Assessment @ 776 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Trunk (cnt)	HAF4016A	2.15	Highest Reading	E	0.76	0.173	0.059	12.6	0.173	0.17
Measurement Grid										
Test Position	% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk	IEEE Controlled Limit:		2.59				
Back Seat	10.2%	5.7%	4.2%	IEEE Uncontrolled Limit:		0.52				
Front Seat	2.8%	2.4%	1.7%	RF Po (*Max):		12.6				

Table 7

External Vehicle MPE Assessment @ 794 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.75	0.022	12.6	0.022	0.02
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.5%		6	120	0.9%		2.65	0.53
2	40	0.7%		7	140	0.8%			
3	60	0.9%		8	160	0.9%			
4	80	1.0%		9	180	0.9%			
5	100	1.0%		10	200	0.7%			
								RF Po (*Max)	12.6

Table 8

Internal Vehicle MPE Assessment @ 795 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Trunk (cnt)	HAF4016A	2.15	Highest Reading	E	0.75	0.066	0.027	12.6	0.066	0.07
Measurement Grid										
Test Position		% of Control Limit Head		% of Control Limit Chest		% of Control Limit Lower Trunk		IEEE Controlled Limit:		2.65
Back Seat		3.5%		2.1%		1.9%		IEEE Uncontrolled Limit:		0.53
Front Seat		1.0%		1.3%		0.8%		RF Po (*Max):		12.6

Table 9

External Vehicle MPE Assessment @ 800 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.75	0.021	12.6	0.021	0.02
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.5%		6	120	0.7%		2.67	0.53
2	40	0.5%		7	140	0.9%			
3	60	0.6%		8	160	1.2%			
4	80	0.6%		9	180	1.1%			
5	100	0.7%		10	200	1.0%			
								RF Po (*Max)	12.6



Table 10

Internal Vehicle MPE Assessment @ 800 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Trunk (cnt)	HAF4016A	2.15	Highest Reading	E	0.75	0.128	0.043	12.6	0.128	0.13
Measurement Grid										
Test Position	% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk	IEEE Controlled Limit:		2.67				
Back Seat	6.4%	5.3%	2.7%	IEEE Uncontrolled Limit:		0.53				
Front Seat	1.8%	2.0%	1.0%	RF Po (*Max):		12.6				

BS Position 1

Table 11

External Vehicle MPE Assessment @ 806 MHz										
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )	
Trunk (cnt)	HAF4016A	2.15	90	E	0.75	0.017	12.6	0.017	0.02	
Measurement Grid										
Test Position	Height (cm)	% of Control Limit	Test Position	Height (cm)	% of Control Limit	IEEE Controlled Limit	IEEE Uncontrolled Limit			
1	20	0.3%	6	120	0.6%	2.69	0.54			
2	40	0.4%	7	140	0.7%					
3	60	0.5%	8	160	0.8%					
4	80	0.5%	9	180	0.9%					
5	100	0.7%	10	200	1.0%					
							RF Po (*Max):	12.6		

Table 12

Internal Vehicle MPE Assessment @ 806 MHz										
Antenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm <sup>2</sup> )		Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
						Back	Front			
Trunk (cnt)	HAF4016A	2.15	Highest Reading	E	0.75	0.170	0.053	12.6	0.170	0.17
Measurement Grid										
Test Position	% of Control Limit Head	% of Control Limit Chest	% of Control Limit Lower Trunk	IEEE Controlled Limit:		2.69				
Back Seat	8.1%	7.0%	3.9%	IEEE Uncontrolled Limit:		0.54				
Front Seat	2.5%	2.2%	1.2%	RF Po (*Max):		12.6				

BS Position 2

**Table 13**

External Vehicle MPE Assessment @ 764 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.76	0.012	12.6	0.012	0.01
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.2%		6	120	0.5%		2.55	0.51
2	40	0.2%		7	140	0.6%			
3	60	0.2%		8	160	0.7%			
4	80	0.3%		9	180	0.9%			
5	100	0.3%		10	200	1.0%			

BS Position 2

**Table 14**

External Vehicle MPE Assessment @ 770 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.76	0.015	12.6	0.015	0.01
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.2%		6	120	0.6%		2.57	0.51
2	40	0.2%		7	140	0.6%			
3	60	0.3%		8	160	0.9%			
4	80	0.4%		9	180	1.0%			
5	100	0.5%		10	200	1.1%			

BS Position 2

**Table 15**

External Vehicle MPE Assessment @ 776 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.76	0.018	12.6	0.018	0.02
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.2%		6	120	0.8%		2.59	0.52
2	40	0.3%		7	140	0.9%			
3	60	0.4%		8	160	0.9%			
4	80	0.4%		9	180	1.1%			
5	100	0.7%		10	200	1.3%			

BS Position 2

**Table 16**

External Vehicle MPE Assessment @ 794 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.75	0.025	12.6	0.025	0.02
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.5%		6	120	1.0%		2.65	0.53
2	40	0.5%		7	140	1.3%			
3	60	0.6%		8	160	1.2%			
4	80	0.8%		9	180	1.3%			
5	100	0.9%		10	200	1.3%			
								RF Po (*Max)	12.6

BS Position 2

**Table 17**

External Vehicle MPE Assessment @ 800 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.75	0.027	12.6	0.027	0.03
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.7%		6	120	1.2%		2.67	0.53
2	40	0.6%		7	140	1.3%			
3	60	0.7%		8	160	1.4%			
4	80	0.7%		9	180	1.4%			
5	100	1.0%		10	200	1.3%			
								RF Po (*Max)	12.6

BS Position 2

**Table 18**

External Vehicle MPE Assessment @ 806 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.75	0.033	12.6	0.033	0.03
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.5%		6	120	1.3%		2.69	0.54
2	40	0.5%		7	140	1.9%			
3	60	0.8%		8	160	1.8%			
4	80	0.9%		9	180	2.0%			
5	100	1.1%		10	200	1.6%			
								RF Po (*Max)	12.6

BS Position 3

**Table 19**

External Vehicle MPE Assessment @ 764 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.76	0.018	12.6	0.018	0.02
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.4%		6	120	0.8%		2.55	0.51
2	40	0.5%		7	140	1.0%			
3	60	0.5%		8	160	0.9%			
4	80	0.5%		9	180	0.9%			
5	100	0.7%		10	200	0.9%			
								RF Po (*Max)	12.6

BS Position 3

**Table 20**

External Vehicle MPE Assessment @ 770 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.76	0.022	12.6	0.022	0.02
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.4%		6	120	0.9%		2.57	0.51
2	40	0.5%		7	140	1.1%			
3	60	0.7%		8	160	1.2%			
4	80	0.8%		9	180	1.0%			
5	100	0.9%		10	200	1.0%			
								RF Po (*Max)	12.6

BS Position 3

**Table 21**

External Vehicle MPE Assessment @ 776 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.76	0.025	12.6	0.025	0.03
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.4%		6	120	1.3%		2.59	0.52
2	40	0.6%		7	140	1.4%			
3	60	0.5%		8	160	1.3%			
4	80	0.7%		9	180	1.2%			
5	100	1.2%		10	200	1.2%			
								RF Po (*Max)	12.6

Table 22

External Vehicle MPE Assessment @ 794 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.75	0.029	12.6	0.029	0.03
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.8%		6	120	1.2%		2.65	0.53
2	40	0.9%		7	140	1.4%			
3	60	0.9%		8	160	1.3%			
4	80	1.0%		9	180	1.2%			
5	100	1.1%		10	200	1.1%			
								RF Po (*Max)	
								12.6	

Table 23

External Vehicle MPE Assessment @ 800 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.75	0.032	12.6	0.032	0.03
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.7%		6	120	1.4%		2.67	0.53
2	40	0.8%		7	140	1.7%			
3	60	0.9%		8	160	1.4%			
4	80	1.2%		9	180	1.3%			
5	100	1.3%		10	200	1.3%			
								RF Po (*Max)	
								12.6	

Table 24

External Vehicle MPE Assessment @ 806 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.75	0.033	12.6	0.033	0.03
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.8%		6	120	1.7%		2.69	0.54
2	40	0.9%		7	140	1.6%			
3	60	0.9%		8	160	1.4%			
4	80	1.0%		9	180	1.4%			
5	100	1.1%		10	200	1.3%			
								RF Po (*Max)	
								12.6	

BS Position 4

**Table 25**

External Vehicle MPE Assessment @ 764 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.76	0.019	12.6	0.019	0.02
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.3%		6	120	1.2%		2.55	0.51
2	40	0.3%		7	140	1.0%			
3	60	0.3%		8	160	0.9%			
4	80	0.6%		9	180	0.9%			
5	100	1.3%		10	200	0.7%			
								RF Po (*Max)	12.6

BS Position 4

**Table 26**

External Vehicle MPE Assessment @ 770 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.76	0.024	12.6	0.024	0.02
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.5%		6	120	1.4%		2.57	0.51
2	40	0.5%		7	140	1.8%			
3	60	0.5%		8	160	1.2%			
4	80	0.9%		9	180	0.9%			
5	100	1.1%		10	200	0.6%			
								RF Po (*Max)	12.6

BS Position 4

**Table 27**

External Vehicle MPE Assessment @ 776 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.76	0.043	12.6	0.043	0.04
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.6%		6	120	2.4%		2.59	0.52
2	40	0.8%		7	140	2.9%			
3	60	0.7%		8	160	2.5%			
4	80	1.4%		9	180	1.9%			
5	100	2.0%		10	200	1.6%			
								RF Po (*Max)	12.6

BS Position 4

**Table 28**

External Vehicle MPE Assessment @ 794 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.75	0.054	12.6	0.054	0.05
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.8%		6	120	3.2%		2.65	0.53
2	40	0.7%		7	140	3.5%			
3	60	0.8%		8	160	2.7%			
4	80	1.8%		9	180	2.6%			
5	100	2.3%		10	200	2.0%			
								RF Po (*Max)	
								12.6	

BS Position 4

**Table 29**

External Vehicle MPE Assessment @ 800 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.75	0.040	12.6	0.040	0.04
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.6%		6	120	2.5%		2.67	0.53
2	40	0.5%		7	140	2.6%			
3	60	0.6%		8	160	2.2%			
4	80	1.1%		9	180	1.9%			
5	100	1.6%		10	200	1.5%			
								RF Po (*Max)	
								12.6	

BS Position 4

**Table 30**

External Vehicle MPE Assessment @ 806 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.75	0.054	12.6	0.054	0.05
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.8%		6	120	3.4%		2.69	0.54
2	40	0.7%		7	140	3.5%			
3	60	0.8%		8	160	2.9%			
4	80	1.6%		9	180	2.4%			
5	100	2.2%		10	200	1.8%			
								RF Po (*Max)	
								12.6	

BS Position 5

**Table 31**

External Vehicle MPE Assessment @ 764 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.76	0.051	12.6	0.051	0.05
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.4%		6	120	4.2%		2.55	0.51
2	40	0.7%		7	140	3.2%			
3	60	1.2%		8	160	1.5%			
4	80	2.4%		9	180	1.2%			
5	100	3.8%		10	200	1.4%			
								RF Po (*Max)	12.6

BS Position 5

**Table 32**

External Vehicle MPE Assessment @ 770 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.76	0.073	12.6	0.073	0.07
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	1.0%		6	120	4.8%		2.57	0.51
2	40	1.0%		7	140	4.6%			
3	60	1.6%		8	160	3.0%			
4	80	3.5%		9	180	2.1%			
5	100	4.8%		10	200	2.1%			
								RF Po (*Max)	12.6

BS Position 5

**Table 33**

External Vehicle MPE Assessment @ 776 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.76	0.073	12.6	0.073	0.07
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.9%		6	120	4.4%		2.59	0.52
2	40	0.8%		7	140	4.0%			
3	60	1.6%		8	160	3.8%			
4	80	2.1%		9	180	2.9%			
5	100	4.8%		10	200	2.8%			
								RF Po (*Max)	12.6



BS Position 5

**Table 34**

External Vehicle MPE Assessment @ 794 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.75	0.031	12.6	0.031	0.03
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.4%		6	120	2.5%		2.65	0.53
2	40	0.5%		7	140	1.7%			
3	60	0.9%		8	160	1.0%			
4	80	1.2%		9	180	0.8%			
5	100	1.6%		10	200	1.0%			
								RF Po (*Max)	12.6

BS Position 5

**Table 35**

External Vehicle MPE Assessment @ 800 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.75	0.048	12.6	0.048	0.05
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.6%		6	120	3.4%		2.67	0.53
2	40	0.9%		7	140	2.8%			
3	60	1.5%		8	160	1.9%			
4	80	1.9%		9	180	1.4%			
5	100	2.2%		10	200	1.3%			
								RF Po (*Max)	12.6

BS Position 5

**Table 36**

External Vehicle MPE Assessment @ 806 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm <sup>2</sup> )	Initial Power (W)	Pwr. Density Calc. (mW/cm <sup>2</sup> )	Pwr. Density Max Calc. (mW/cm <sup>2</sup> )
Trunk (cnt)	HAF4016A	2.15	90	E	0.75	0.066	12.6	0.066	0.07
Measurement Grid									
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% of Control Limit		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.8%		6	120	4.0%		2.69	0.54
2	40	1.2%		7	140	3.7%			
3	60	2.1%		8	160	2.6%			
4	80	2.4%		9	180	2.3%			
5	100	3.6%		10	200	1.7%			
								RF Po (*Max)	12.6